

**Abstract**

The disclosure concerns a process for removing COS from a  
5 COS-containing hydrocarbonaceous fluid stream, especially from a  
gas stream, for example natural gas, synthesis gas from heavy oil  
or heavy residues or refinery gas, or from liquid or liquefied  
hydrocarbons, for example LPG (Liquefied Petroleum Gas) or NGL  
(Natural Gas Liquids), and also a scrubbing liquor for use in  
10 such processes. The invention comprises intimately contacting the  
fluid stream in an absorption or extraction zone with a scrubbing  
liquor comprising an aqueous amine solution containing from 1:5  
to 5 mol/l of an aliphatic alkanolamine of from 2 to 12 carbon  
atoms and from 0.4 to 1.7 mol/l of a primary or secondary amine  
15 as activator, removing the COS essentially completely from the  
fluid stream, and separating the substantially decontaminated  
fluid stream and the COS-loaded scrubbing liquor and discharging  
them from the absorption or extraction zone. The scrubbing liquor  
may subsequently be conventionally removed and recycled into the  
20 absorption or extraction zone.

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